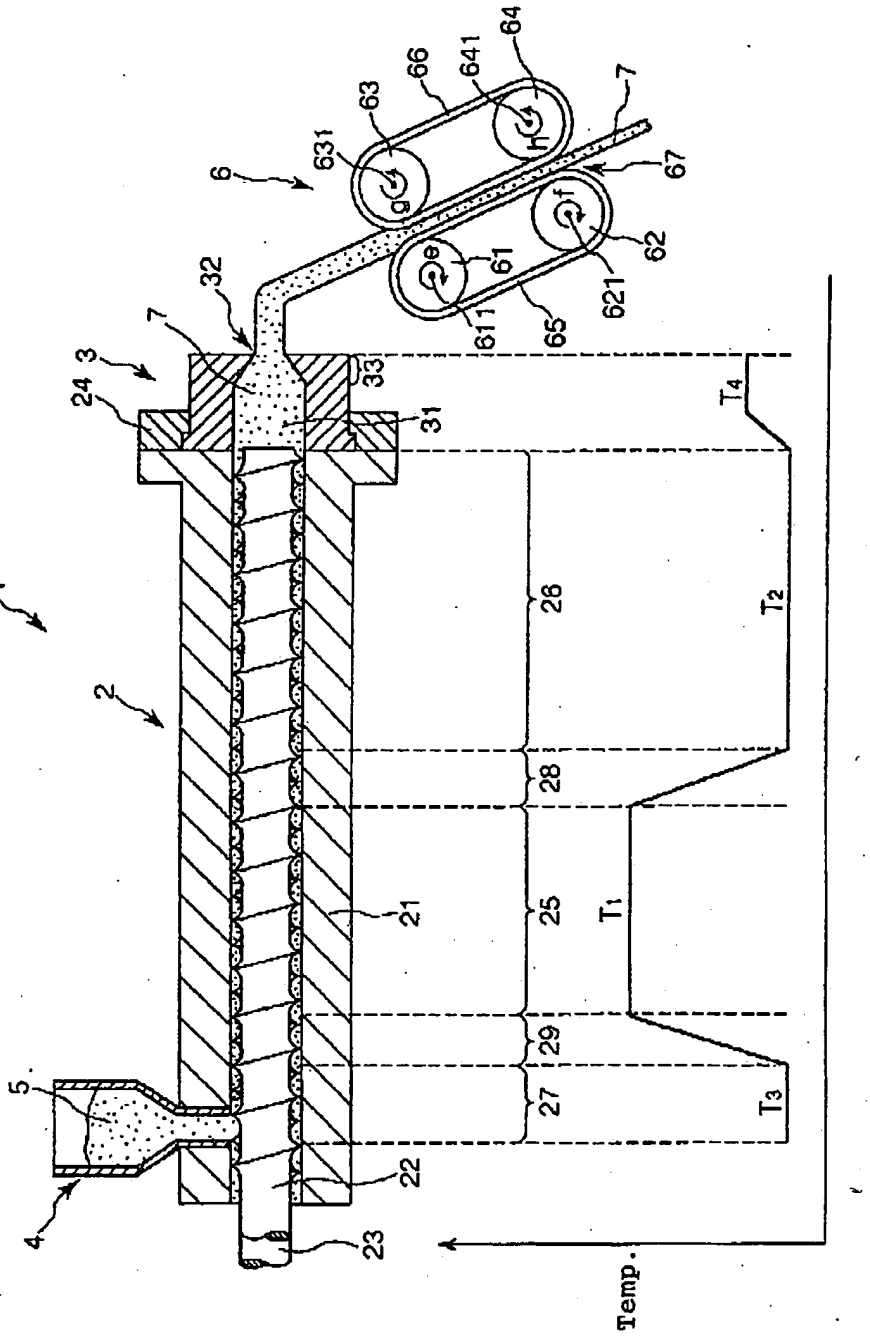

1
2
3
4
5
6
7
21
22
23
24
25
26
27
28
29
31
32
33
61
611
62
621
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631
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641
65
66
67
T1
T2
T3
T4
Temp.

Fig. 1

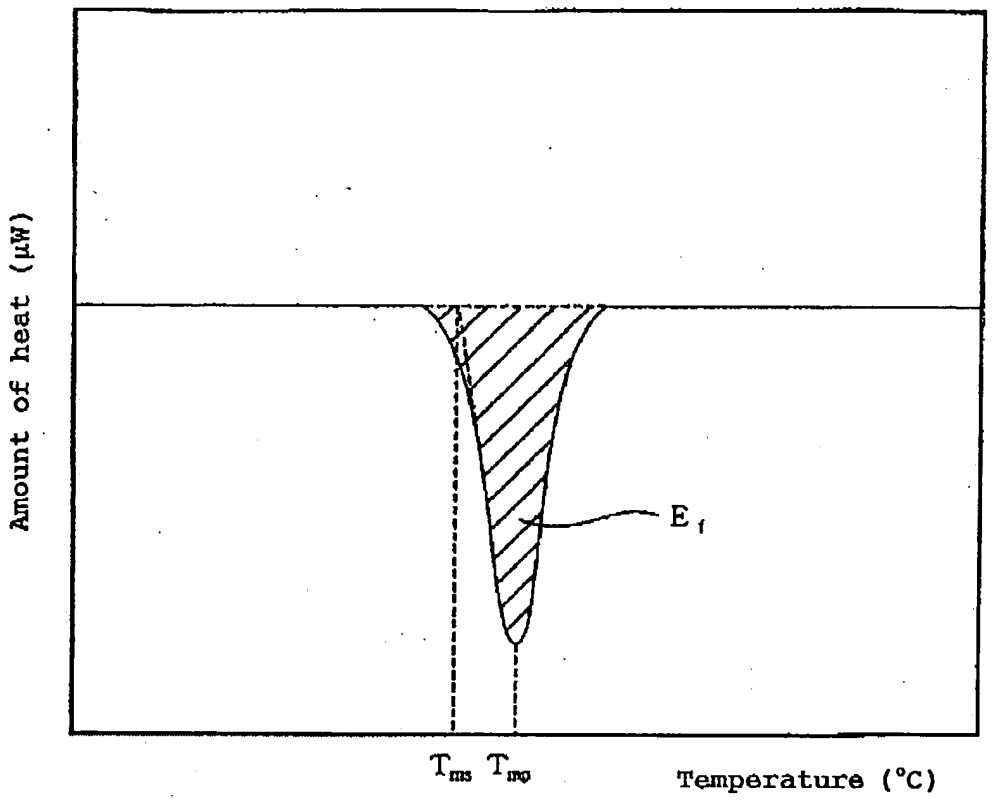


Fig. 2

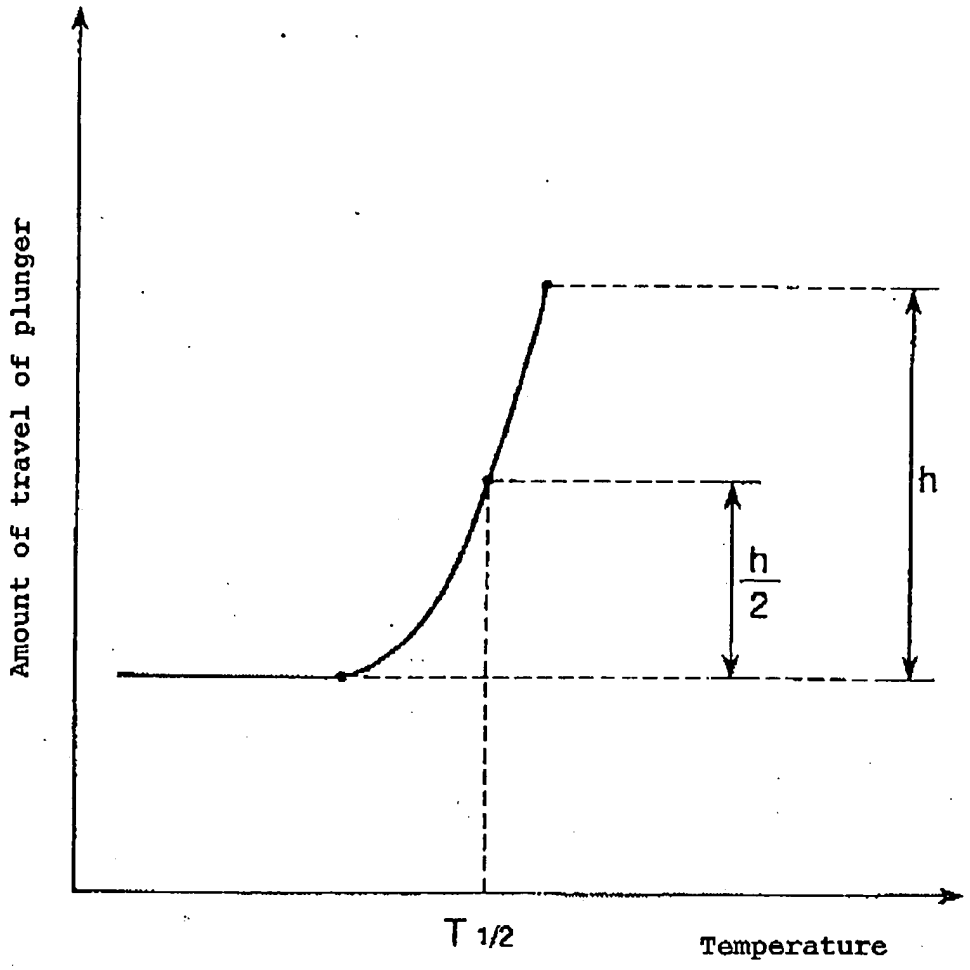


Fig. 3

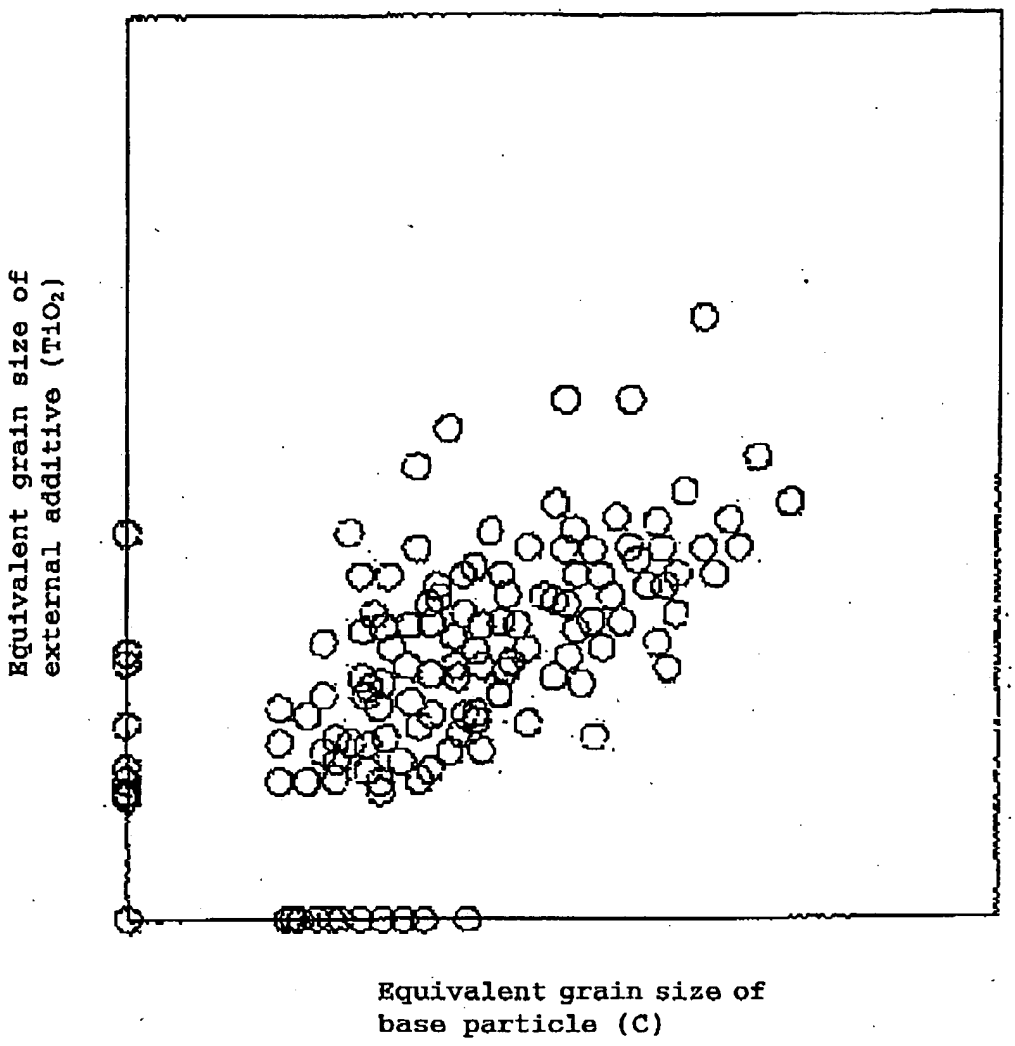

Equivalent grain size of external additive (TiO_2)
Equivalent grain size of base particle (C)

Fig. 4

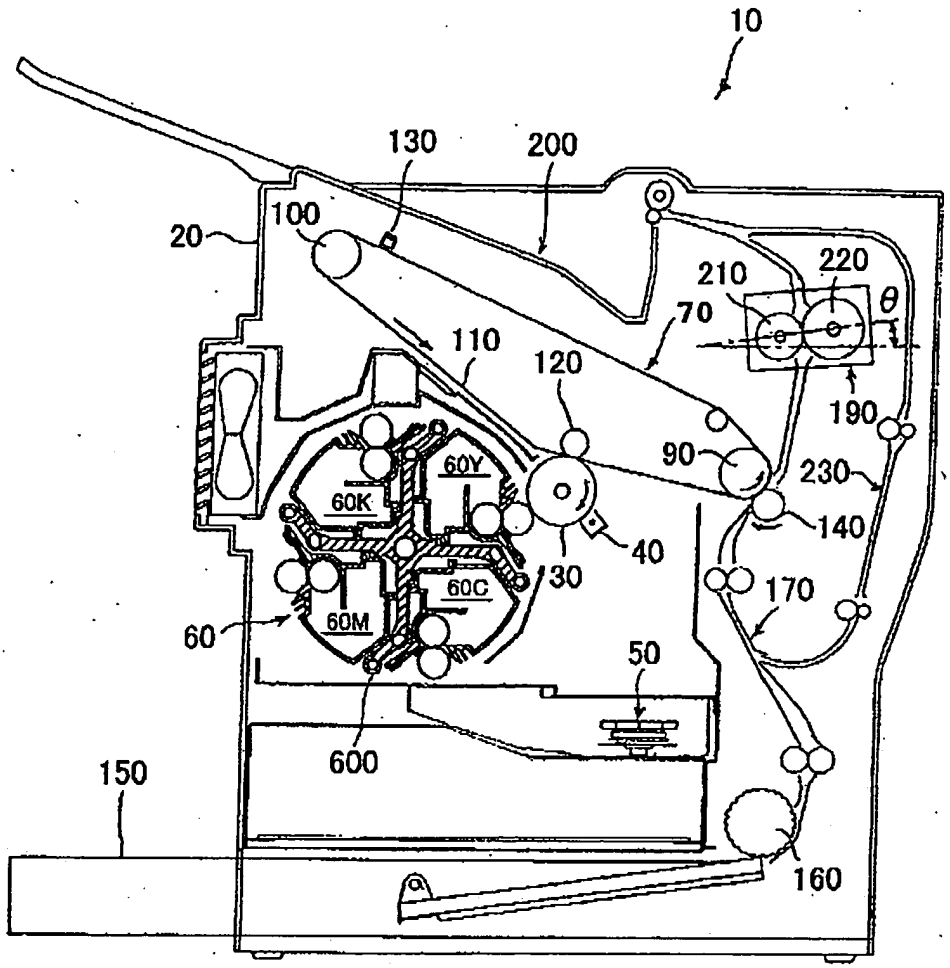

10
130
200
20
100
210
220
θ
70
110
120
190
90
230
60Y
60K
140
40
30
60C
170
60M
60
50
600
150
160

Fig. 5

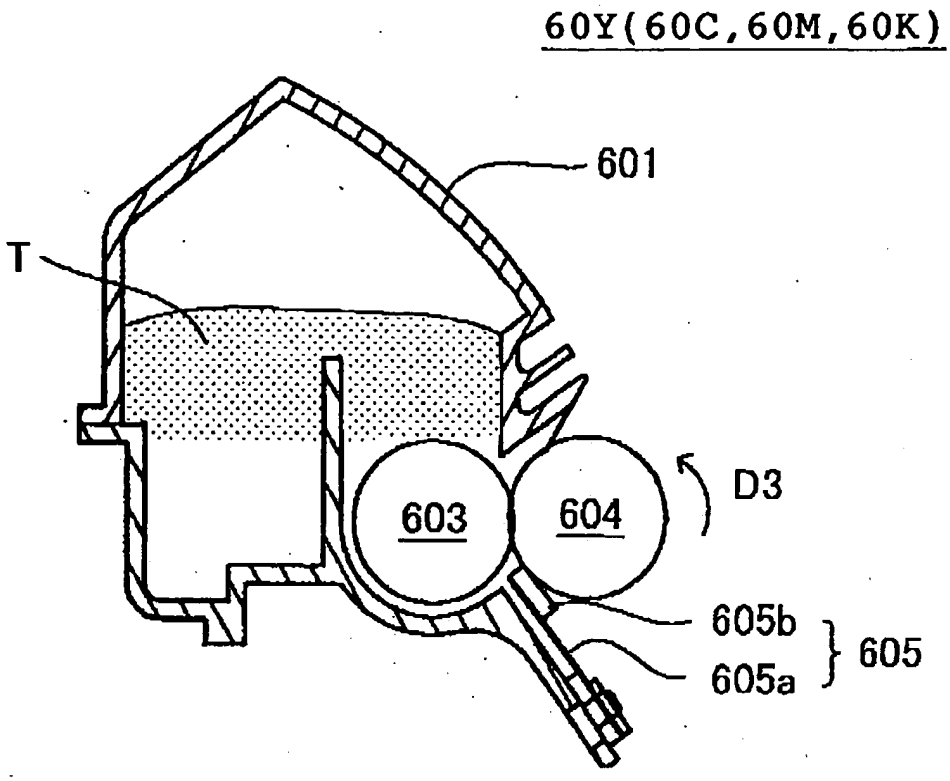


Fig. 6

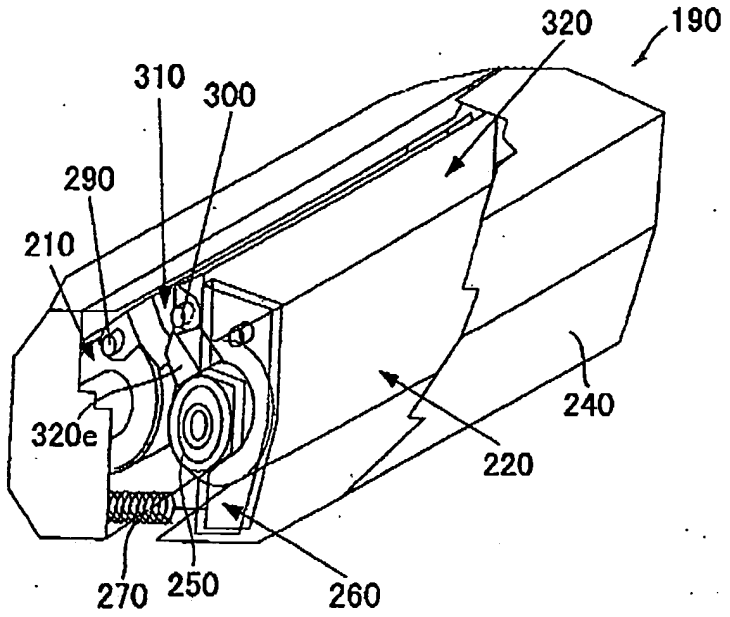


Fig. 7

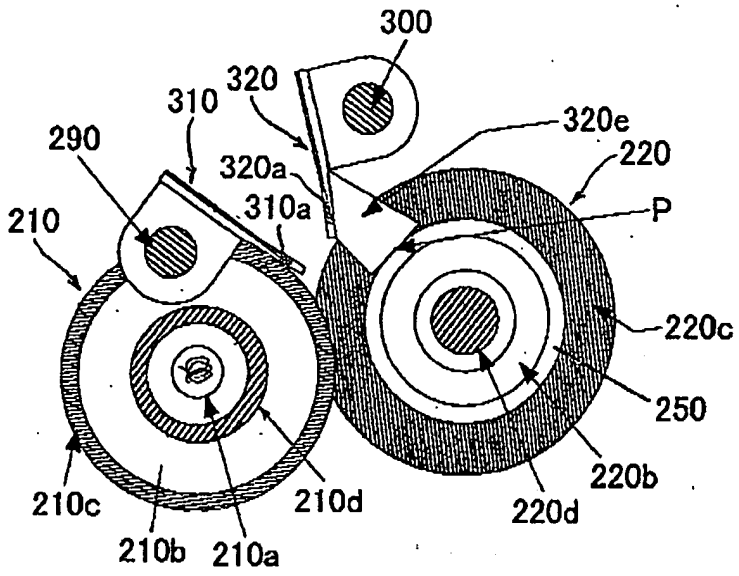

300
320
310
290
320a
320e
220
310a
P
210
220c
250
210c
210b
210a
210d
220d
220b

Fig. 8

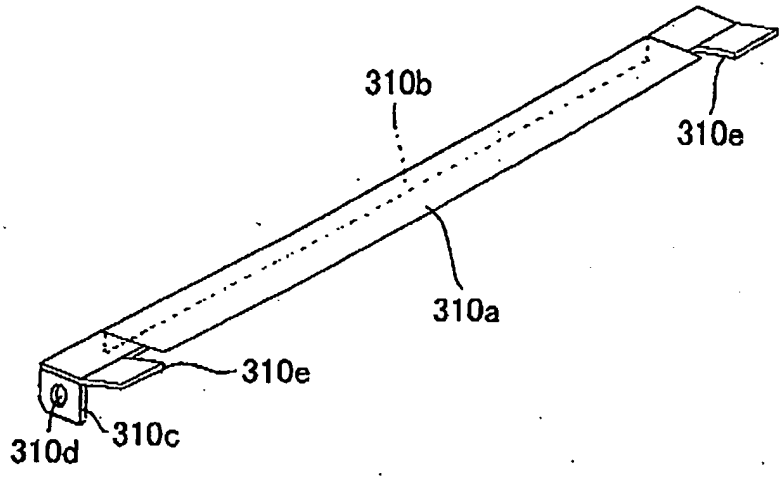

310b
310e
310a
310e
310c
310d

Fig. 9

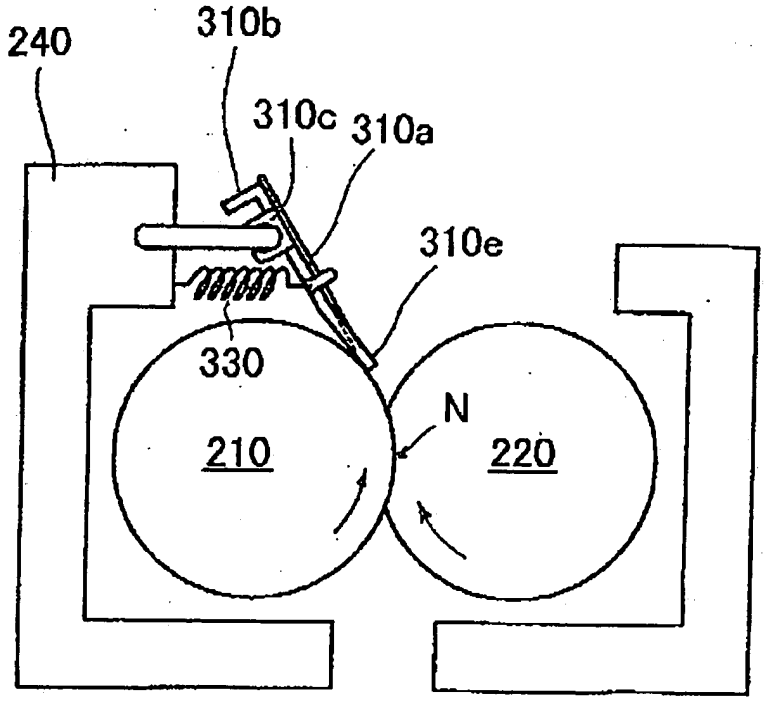

240
310b
310c
310a
310e
330
N
210
220

Fig. 10

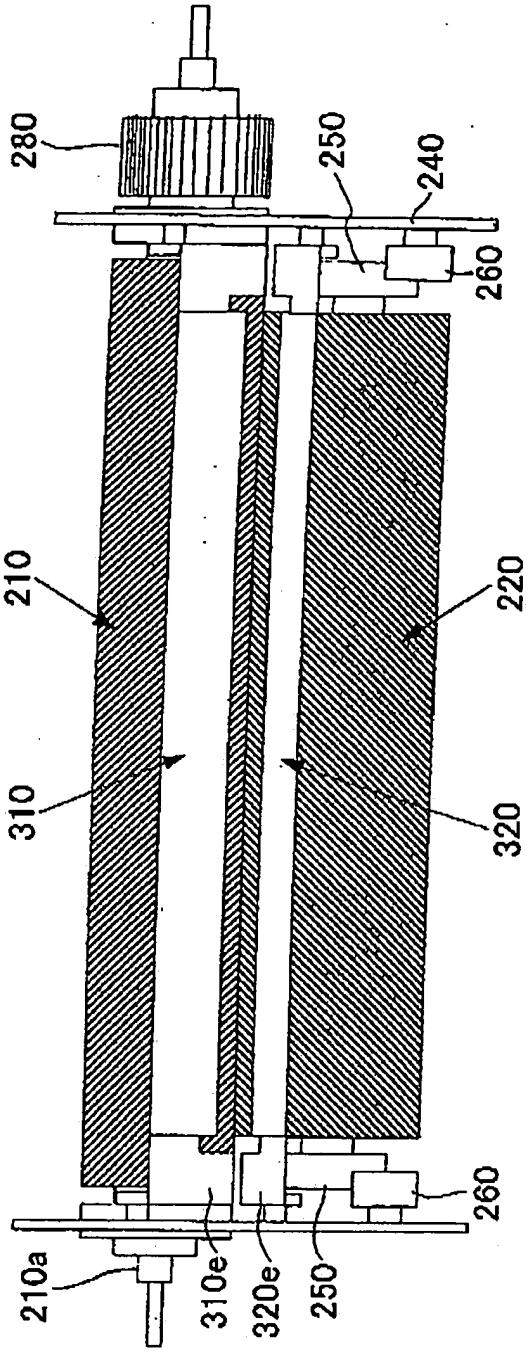


Fig. 11

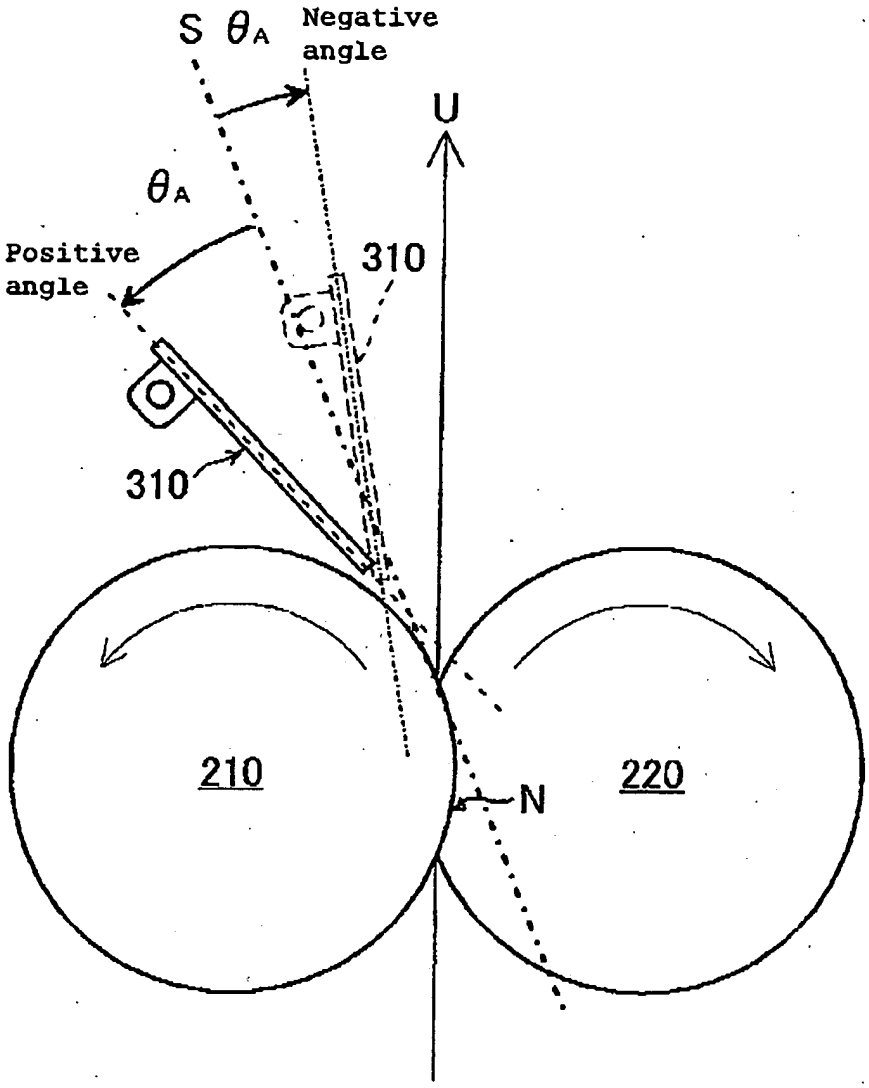


Fig. 12

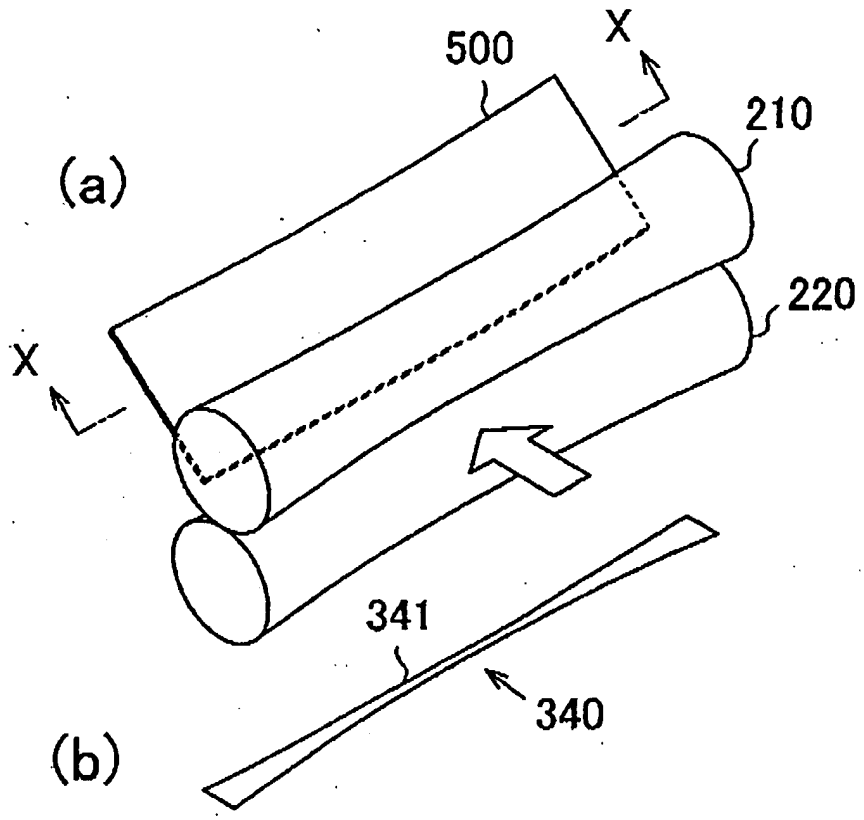


Fig. 13

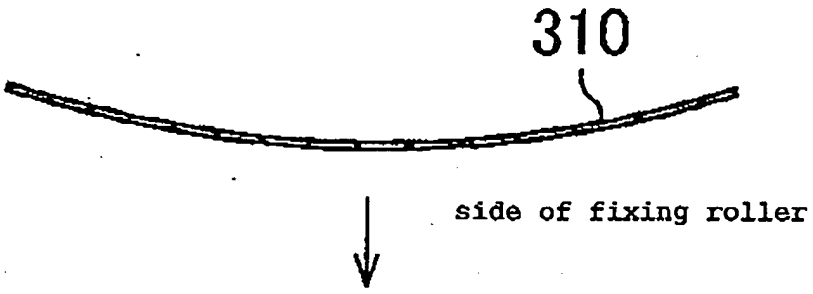


Fig. 14

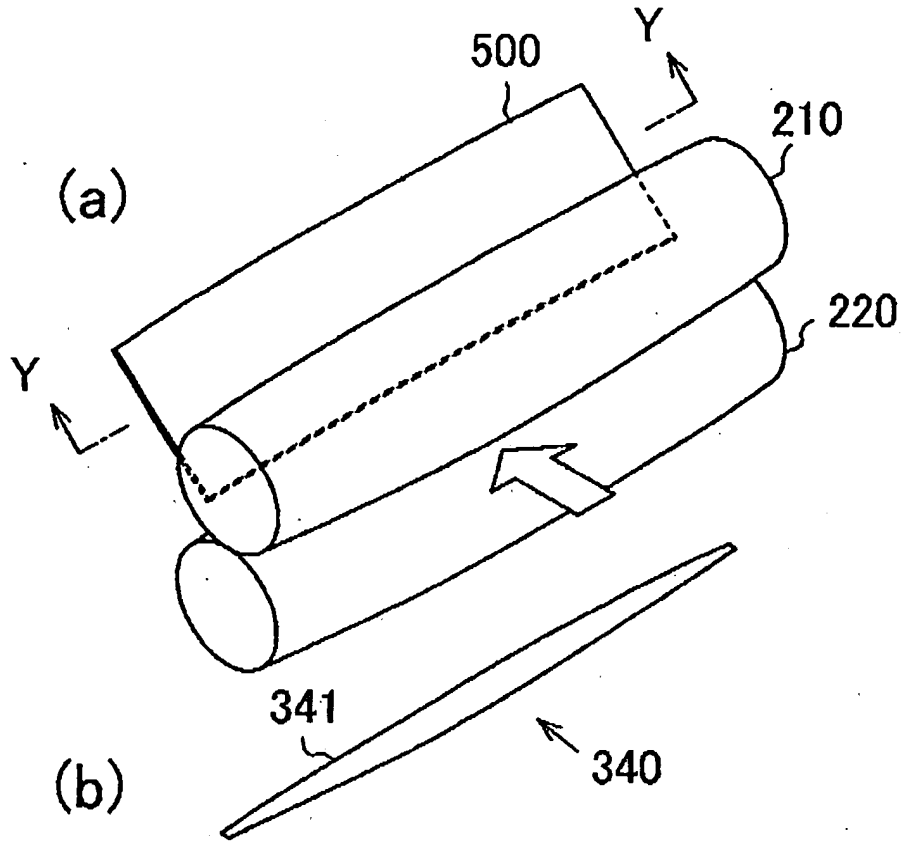


Fig. 15

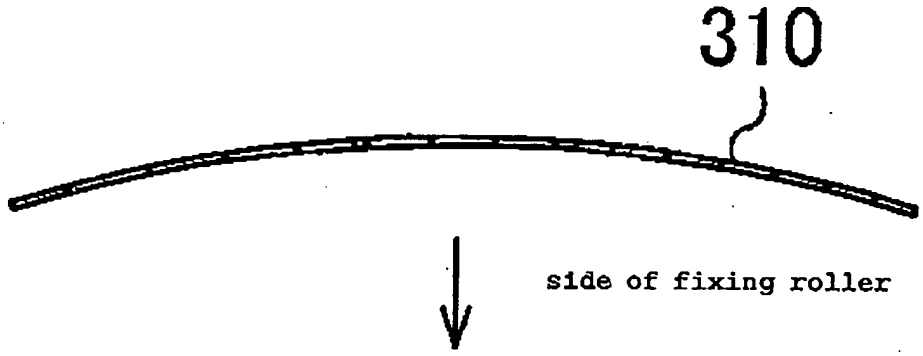


Fig. 16

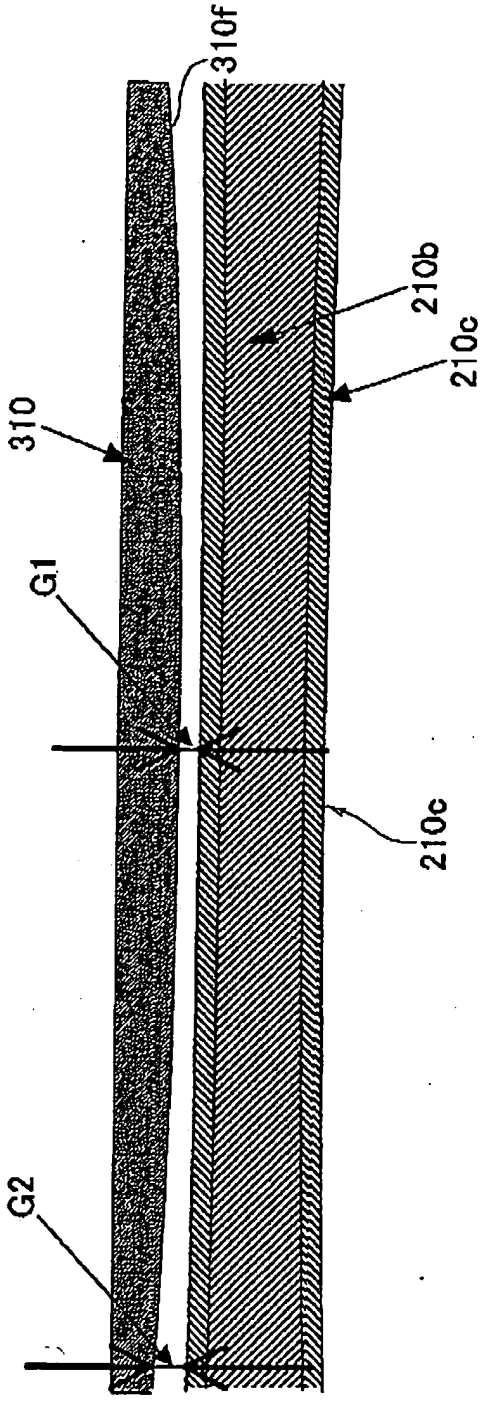


Fig. 17